

Title (en)
LOCAL AUGMENTED REALITY PERSISTENT STICKER OBJECTS

Title (de)
PERSISTENTE AUFKLEBEROBJEKTE IN LOKALER ERWEITERTER REALITÄT

Title (fr)
OBJETS AUTOCOLLANTS PERSISTANTS À RÉALITÉ AUGMENTÉE LOCALE

Publication
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Application
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- EP 17703912 A 20170127
- US 2017015330 W 20170127

Abstract (en)
Local augmented reality (AR) tracking of AR objects is disclosed. In one example embodiment a device captures a series of video image frames. A user input is received at the device associating a first portion of a first image of the video image frames with an AR sticker object and a target. A first target template is generated to track the target across frames of the video image frames. In some embodiments, global tracking based on a determination that the target is outside a boundary area is used. The global tracking comprises using a global tracking template for tracking movement in the video image frames captured following the determination that the target is outside the boundary area. When the global tracking determines that the target is within the boundary area, local tracking is resumed along with presentation of the AR sticker object on an output display of the device.

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G06T 7/246 (2017.01)

CPC (source: EP KR US)
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Citation (search report)

- [Y] US 2011090344 A1 20110421 - GEFEN SMADAR [US], et al
- [Y] WAGNER D ET AL: "Robust and unobtrusive marker tracking on mobile phones", MIXED AND AUGMENTED REALITY, 2008. ISMAR 2008. 7TH IEEE/ACM INTERNATIONAL SYMPOSIUM ON, IEEE, PISCATAWAY, NJ, USA, 15 September 2008 (2008-09-15), pages 121 - 124, XP031343986, ISBN: 978-1-4244-2840-3
- [Y] WAGNER D ET AL: "Real-Time Detection and Tracking for Augmented Reality on Mobile Phones", IEEE TRANSACTIONS ON VISUALIZATION AND COMPUTER GRAPHICS, IEEE SERVICE CENTER, LOS ALAMITOS, CA, US, vol. 15, no. 3, 1 May 2010 (2010-05-01), pages 355 - 368, XP011295481, ISSN: 1077-2626
- [Y] GERALDO SILVEIRA ET AL: "Unified Direct Visual Tracking of Rigid and Deformable Surfaces Under Generic Illumination Changes in Grayscale and Color Images", INTERNATIONAL JOURNAL OF COMPUTER VISION, KLUWER ACADEMIC PUBLISHERS, BO, vol. 89, no. 1, 24 February 2010 (2010-02-24), pages 84 - 105, XP019796026, ISSN: 1573-1405
- [Y] MEYER F G ET AL: "Region-Based Tracking Using Affine Motion Models in Long Image Sequences", CVGIP IMAGE UNDERSTANDING, ACADEMIC PRESS, DULUTH, MA, US, vol. 60, no. 2, 1 September 1994 (1994-09-01), pages 119 - 140, XP026968290, ISSN: 1049-9660, [retrieved on 19940901]

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US 201615010847 A 20160129; CN 201780002062 A 20170127; EP 17703912 A 20170127; EP 21157592 A 20170127; EP 23218241 A 20170127; KR 20177035782 A 20170127; KR 20197031843 A 20170127; US 2017015330 W 20170127; US 201816045431 A 20180725; US 202016927273 A 20200713; US 202217722955 A 20220418